No.



200200131

THE UNITED SHATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Pioneer Hi-Bred International, Inc.

There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW. THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, AS CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN DUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY ECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'92B14'

In Testimonn Marcest, I have hereunto set my hand and caused the seal of the Hant Hariety Hertection Office to be affixed at the City of Washington, D.C. this tenth day of June, in the year two thousand two.

Alloste

20m Jahre

Commissioner Plant Variety Protection Office Agricultural Marketing Service Dereman Dariculture U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

1. TREPPORE (product and costs) 1. TREPPORE (product and costs	(manuchons and minimation cone)	alon buluen statement on re-	verse)						
## FAX PROPRIATE DON FOR A "PERSON", ONE FORM OF DOLERAN OF DOLERAN OF THE PROPERTY OF THE PRO	NAME OF OWNER Pioneer Hi-Bred Inter			TEMPORARY DESIGNAT EXPERIMENTAL NAME	ION OR				
T. FTHE OWNER NAMED IS NOT A PERSON: GIVE FORM OF ORGANIZATION (expansion, partnershy, application, ed.) 10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION, (Paid power) ideal and excess of papers) 11. TILEPPONE (include area codin) 12. FAX (include area codin) 13. EAML 14. CROP INDICATION 15. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 15. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 17. EARLY & School C. Crigorius Disordifica of Variety 18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 20. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 21. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 22. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 23. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 24. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research) 25. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on research in the Variety on the	4. ADDRESS (Street and No., or R.F.D. No., 7300 N. W. 62 nd Avenue P.O. Box 1004 Johnston, IA 50131	City, State, and ZIP Code, and Coun	ntry)	,		, A	PAPOMILIMBER A 3 59 6		
AS PART OF THE CONTROL OF THE CONTRO				· · · · · · · · · · · · · · · · · · ·			FILING DATE		
Date Street, Name of the Control of	ORGANIZATION (corporation, partnership		STATE OF INCO	TED, GIVE DRPORATION		ON	4/05/2002		
11. TELEPHONE (Include area code) 12. FAX (Include area code) 15:52542638 16:545254278 17:5452542638 18: E-MAIL Daria Schmidt@ploneer.com 19: DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY OF SOLD AS A CLASS OF CREMENS (Include area code) 19: DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY OF SOLD AS A CLASS OF CREMENS (Include area code) 19: DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY OF SOLD AS A CLASS OF CREMENS (Include area code) 19: DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY OF SOLD AS A CLASS OF CREMENS (Include area code) 19: DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY OF DOES (Include area code) 19: DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY OF DOES (Include area code) 19: DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY OF DOES (Include area code) 19: DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY OF DOES (Include area code) 19: DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY OF DOES (Include area code) 19: DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY OF DOES (Include area code) 19: DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY OF DOES (Include area code) 19: PYES, WHICH CLASSES? IF YES, WHICH CLASSES? IF YES, WHICH CLASSES? IF YES, WHICH CLASSES? 19: FYES, SPECIFY THE OWNER SPECIFY THAT THE CLASSES BE COME COUNTED AT THE COME of SPECIFY THAT THE CLASSES BE COME OF THE OWNER SPECIFY THAT THE CLASSES BE COME OF THE OWNER SPECIFY THAT THE CLASSES BE COME OF THE OWNER SPECIFY THAT THE CLASSES BE COME OWNER SPECIFY THAT THE CLASSES BE COME OF THE OWNER SPECIFY THAT THE CLASSES BE COME OWNER SPECIFY THAT THE CLASSES BE COME OWNER SPECIFY THAT THE CLASSES BE COME OF THE OWNER SPECIFY THAT THE CLASSES BE COME OWNER SPECIFY THAT THE CLASSES BE COME OWNER STATES AND THE CREMENS OF THE OWNER SPECIFY THAT THE CLASSES BE COME OWNER STATES AND THE CREMENS OF THE OWNER S	Daria Schmidt, Ph. D. 7300 N.W. 62 rd Avenue P.O. Box 1004	Steve Callestine, Exq 7100 N.W 62 nd Avenue P.O Box 1000	THIS APPLICATION. (1	First person listed will	receive all papers)		FEES: \$ \$ 7,405,00 B C DATE 405/2002 CERTIFICATION FEE:		
CERTIFIED SEED* See Section Size) of the Plant Variety Protection Act)	. ,	•							
States* (Mail to the Plant Variety Protection Office) If YES, SPECIFY THE NUMBER 1, 2, 3, etc. If Additional explanation is necessary, please use the space indicated on the reverse.) 22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? YES X NO MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) 24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) Isgre) the owner of this sexually reproduced or tuber propagated variety is large to the variety and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) Is(are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF OWNER NAME (Please print or type) Daria H. Schmidt DATE CAPACITY OR TITLE DATE	reverse) a.	CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act) YES (If "yes", answer items 20							
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? YES NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) 24. The owners declare that a visible sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF OWNER NAME (Please print or type) Daria H. Schmidt CAPACITY OR TITLE DATE CAPACITY OR TITLE DATE CAPACITY OR TITLE DATE	g. X Filing and Examination Fee (\$2,705), made payable to "Treasurer of Protection Office)	of the United	NUMBER 1, 2	, 3, etc. FOUNDAT				
The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF OWNER SIGNATURE OF OWNER NAME (Please print or type) Daria H. Schmidt CAPACITY OR TITLE DATE DATE DATE	FROM THIS VARIETY BEEN SOLD, DISP OTHER COUNTRIES?	OSED OF, TRANSFERRED, OR USE	ED IN THE U.S. OR	23. IS THE VARIE PROPERTY R	TTY OR ANY COMPONENT OF RIGHT (PLANT BREEDER'S RIG ES COUNTRY, DATE OF FILING C	THE VARIET	Y PROTECTED BY INTELLECTUAL ENT)? NO E AND ASSIGNED		
NAME (Please print or type) Daria H. Schmidt CAPACITY OR TITLE DATE NAME (Please print or type) NAME (Please print or type) DATE DATE	The undersigned owner(s) is(are) the owner and is entitled to protection under the provi	er of this sexually reproduced or tuber sions of Section 42 of the Plant Varie	r propagated plant vari ety Protection Act.	ety, and believe(s) th					
Daria H. Schmidt CAPACITY OR TITLE DATE DATE DATE	SIGNATURE OF OWNER MANAGEMENT SOLM (SIGNATURE OF C	OWNER					
			NAME (Please prin	it or type)					
[-470 (04-01) designed by the Plant Variety Protection Office with WardPerfect 6.02. Replaces STD-470 (02-99) which is checkets. (See reverse for instructions and information collection burden statement	Director, Technology Integration and Associativ	e Genetics 4/01/0) DZ				·		

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the EVPD: Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
 - (2) the details of subsequent stages of selection and multiplication;
 - (3) evidence of uniformity and stability; and
 - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) Identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces ST-470 (02-99) which is obsolete.

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 92B14

Variety 92B14 evolved from a cross made in 1996 in Illinois with the following parentage:

Parentage: S1811/93B01*

*93B01 is a Pioneer commercial variety with the Roundup Ready (40-3-2) gene.

Variety 92B14 is an F4-derived line which was advanced to the F4 generation by modified single-seed descent. The F5 progeny row of 92B14 was grown in a plant row yield trial in the summer of 1998. Subsequently, 92B14 has undergone three years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, resistance to race 3 of soybean cyst nematode, and resistance to Roundup labeled herbicides, variety 92B14 was assigned a commercial number.

The purification block was grown during the summer of 2000 and 10 sublines were harvested. In winter of 2000, a quarter acre of 92B14 was grown Chile. Approximately 27 acres of 92B14 (breeders seed) were in the summer of 2001.

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Exhibit B. Statement of Distinctness

Soybean Variety 92B14

Variety 92B14 is most similar to variety 92B13. Both varieties have purple flowers, tawny pubescence, yellow seeds with black hila, and resistance to Roundup branded herbicides. However, 92B14 is resistant to Race 3 of soybean cyst nematode and is susceptible to *Phytophthora megasperma*, as it does not contain a Rps1 resistance allele, whereas 92B13 is susceptible to Race 3 of soybean cyst nematode and has resistance to *Phytophthora megasperma* as governed by the Rps1k gene.

Variety 92B14 is also similar to 92B38. Both varieties have purple flowers and resistance to Roundup branded herbicides. However, 92B14 has yellow seeds with black hila, tawny pubescence, and is resistant to Race 3 of soybean cyst nematode whereas 92B38 has yellow seeds with brown hila, light tawny pubescence, and is susceptible to Race 3 of soybean cyst nematode.

Variety 92B14 is also similar to AG2101 from Asgrow (Monsanto). Both varieties have purple flowers, tawny pubescence, yellow seeds with black hila, and resistance to Roundup branded herbicides. However, 92B14 is resistant to Race 3 of soybean cyst nematode and is susceptible to *Phytophthora megasperma*, as it does not contain a Rps1 resistance allele, whereas AG2101 is susceptible to Race 3 of soybean cyst nematode and has resistance to *Phytophthora megasperma* as governed by the Rps1k gene.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF AP	PLICANT(S) ed, International					• • •					FOR OFFICIAL		ONLY				
	reet and No. or R.F.D. No.,	City, Stat	e, and Z	IP Code)					· · · · ·		PVPO NUMBE	` ?)	A 6) 1	3 5	3	4
7200 62 nd Aven P.O Box 1004		-									E V V		0	<i>y</i> ()	8
Johnston, IA	50131-1004										VARIETY NAM 92B14	E					
											TEMPORARY O DESIGNATION)R EX	PERIM	ENTA	L		
PLEASE R	EAD ALL INSTRU	CTION	NS CA	REFUI	LLY: Pla	ace the	appro	priate numl	er that describe	es the varie	etal character o	f this	variet	y in 1	he b	oxe	es
Place a zero	in the first box (e.g	(ı			ı) wher	number is eith	er 99 or les	ss or 9 or less re	spect	ivelv.	Data	for		
quantitativ		9	9	9	or	0	9	'				-P					
plant chara	cters should be base	d on a	<u>l</u> minim	um of]	l 100 plan	ts. Co	mpar] ative data sh	ould be determi	ned from v	varieties entere	d in t	he san	ıe tri	al. 1	Rov:	al
												•				,	
	al Society or any re-										n used:						
	er all questions for	your va	ariety;	lack of	respons	e may	delay	progress of	our application	l .							
A. MORI	PHOLOGY																
Seed Shape	e :			:													
4	1 = Spherical (L/W, L/T, an	d T/V	V rati	os < 1	.2)				ical-Flattene l.2; L/T ratio								
	•			-	,		·		,	, 11.2)							
	3 = Elongate (L/T ratio > 1	.2; T/	W rai	tio < 1	1.2)			Elongate-l ' ratio > 1	Flattened .2;T/W ratio	> 1.2)							
Seed Coat	Color:					-											
1	1 = Yellow		2 =	Gree	n		3=1	Brown	4 = B	lack	5 = Othe (<i>Please S</i>	_	fv)				
Seed Coat 1	Luster:										`		,,				
1	1 = Dull	2 =	Shin	ıy													
Seed Size:																	
1 4	grams/100) seed:	S														
Hilum Colo	or:																
6	1 = Buff 6 = Black	2 =	Yelle 7 =		· (Plea:		Brow ecify)	'n	4 = Gray	5	5 = Imperfec	t Bla	ıck				·

A. MORPHOLOGY (Continued)

Cotyledon Color:

1 = Yellow

2 = Green

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Seed Protein Peroxidase Activity:

1 = Low2 = High

Hypocotyl Color:

1 = Green

2 = Green with Bronze

('Evans' or 'Davis') Bands below Cotyledons ('Woodworth' or 'Tracy') 3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71')

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaflet Shape:

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1 = Tan

2 = Brown

3 = Black

Pubescence Color:

1 = Gray2

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

3

1 = Determinate

2 = Semi - Determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

1 = 0006 = III11 = VIII 2 = 00

7 = IV12 = IX 3 = 08 = V

13 = X

4 = I9 = VI

14 = XI

 $5 = \Pi$ 10 = VII15 = XII

Maturity Subgroup:

Please enter a value from 0 - 9

B. DISEASE REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Bacterial

Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)

Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)

Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

В. 1	DISEASE REAC	CTIONS (Con	tinued)	0 = Not Tested	1	= Susceptible	2 = R	esistant	3 =	Tole	erant
Fung	al —							6 A A	ക	a as	்கி
1	Brown Spot	(Septoria glyc	<i>ines</i> Hemmi)				200	L		, and
	Frogeye Lea	f Spot (<i>Cercos</i>	spora sojina	Hara)							
0	race 1		0	race 2		0 race 3	;	0 ra	ice 4		
0	race 5		0	race 6		0 Other	(Please	Specify)			
0	Target Spot (Corynespora cassiicola (Berk. & Curt.) Wei)										
0	Downey Mildew (Peronospora trifoliorum var. manchurica (Naum.) Syd. ex Gäum)										
0	Powdery Mil	dew (<i>Microsp</i>	haera diffus	a Cke. & Pk.)							
2	Brown Stem Rot (<i>Phialophora gregata</i> (Allington & Chamberlain) W. Gams.)										
0	O Stem Canker (Diaporthe phaseolorum (Cke. & Ell.) Sacc. var. caulivora Athow & Caldwell)										
1	Pod and Ster	n Blight (<i>Diap</i>	porthe phase	olorum (Cke. &	& Ell.) Sa	acc. var. <i>sojae</i> (L	ehman) V	Wehm.)			
0	Purple Seed S	Stain (<i>Cercosp</i>	ora kikuchi	i (T. Matsu. & '	Tomoya	su) Gardener)					
1	Rhizoctonia F	Root Rot (<i>Rhi</i> z	zoctonia sold	<i>ıni</i> Kühn)							
Phyto	phthora Root R	ot (<i>Phytophthe</i>	ora megaspe	erma Drechs. f.	sp. glyci	nea (Kuan & Erv	win))				
0	race 1	o race 8	0	race 15	0	race 22					
0	race 2	0 race 9	0	race 16	0	race 23					
0	race 3	0 race 1	0 0	race 17	0	race 24					
0	race 4	0 race 1	1 0	race 18	1	race 25					
1	race 5	0 race 1	2 0	race 19	0	race 26					
0	race 6	0 race 1	3 0	race 20	0	Other (Please S	specify)				
1	race 7	0 race 1	4 0	race 21	<u></u>						
1	Bud Blight (To	obacco Rings	pot Virus)								
1	Yellow Mosaic	c (Bean Yellov	w Mosaic Vi	irus)							

В.	DI	SEASE REACTIONS (Continued)	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolei	ant
	1	Cowpea Mosaic (Cowpea Chloroti	c Virus)		2002	001	31
	1	Pod Mottle (Bean Pod Mottle Viru	(s)				
	1	Seed Mottle (Soybean Mosaic Viru	ıs)				
Ne	mate	ode					
So	ybea	an Cyst Nematode (Heterodera glycin	es Ichinohe)				
	0	race 1 0 race 4	0 ra	ce 9			
	0	race 2 0 race 5	1 ra	ce 14			
	2	race 3 orace 6	0 0	ther (Please Specify)			
	0	Lance Nematode (Hoplolaimus colu	umbus Sher)				
	0	Southern Root Knot Nematode (Mo	eloidogyne incogni	ta (Kofoid & White) Chit	twood)		
	0	Northern Root Knot Nematode (Mo	eloidogyne hapla C	chitwood)			
	0	Peanut Root Knot Nematode (Melo	idogyne arenaria (Neal) Chitwood)			
	0	Reniform Nematode (Rotylenchus r	eniformus Linwoo	d & Olivera)			
	0	Javanese Nematode (Meloidogyne ja	avanica (Treub) C	hitwood)			
	0	Other Nematode (Please Specify)					
C.	PH	YSIOLOGICAL RESPONSES	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Toler	ant
	0	Iron Chlorosis on Calcareous Soil					
	0	Phosphorus	0 00	her (<i>Please Specify</i>)			
	0	Boron					
(0	Aluminum					
	0	Salt					
Г	0	Drought					

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D. INSECT	REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
0 Mex	ican Bean Beetle (<i>Epilachna vari</i>	vestis Mulsant)	• ""		
0 Pota	nto Leaf Hopper (<i>Empoasca fabae</i>	e (Harris))			·
0 Othe	er (Please Specify)				
E. HERBIC	CIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	
0 Meta	ribuzin		·		
0 Bent	azone				
1 Sulfo	onylurea				
2 Glyp	hosate				
0 Glufo	osinate			¥.	•
0 Pend	imethalin				
0 Other	r (Please Specify)				
F. TRANSG	ENIC COMPOSITION			"	
or, the remova	opment of the subject variety inc al of genetic material from the ap complete the following information te the vector's name:	plication variety?			ther than a soybean, YES NO
	te the vector components:				
	scribe the genetic material succes	stully transferred in	to the subject variety		
4. Please des	scribe the insertion protocol:				
of the "Transg	rature citation(s) explaining the tagenic Composition" portion of the ponents and insert elements are sure and Characterization of a Glyphosa	is form. This section numarized in Figure 1.	is fully address in the f and Table 1 on page 14	following publicate 453.Padgette, S.R.	ion. Specific details of et al. Development,
G. BIOCHEN	MICAL MARKERS	· · · · · · · · · · · · · · · · · · ·			
Please describe (e.g. Simple Se	e any biochemical information he quence Repeats, Restriction Fra	ere, which you believ gment Length Polyn	ve will be helpful in fu norphisms, Isozymic C	rther describing Characterization)	the subject variety . Use additional

ST-470-2 (07-01) designed by the Plant Variety Protection Office with Word 2000. Replaces S&T-470-2 (02-99) which is obsolete.

pages if necessary.

Exhibit D. Additional Description of the Variety

Soybean Variety 92B14

In Exhibit C we have identified variety 92B14 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 92B14 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 92B14 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 92B14 is an early Group II variety. If Group II varieties are divided into tenths, the relative maturity of 92B14 is 2.1.

REPRODUCE LOCALLY. Include form number and edition date on a		FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made 1974 (5 U.S.C. 552a) and the Pape	in accordance with the Privacy Act of
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to do certificate is to be issued (7 U.S.C. confidential until the certificate is is:	
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	2. VARIETY NAME
Pioneer Hi-Bred International, Inc	OR EXPERIMENTAL NUMBER	92B14
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7300 N.W. 62 nd Avenue P.O. Box 1004 Johnston, IA 50131-1004	515-254-2638	515-253-2478
	7. PVPO NUMBER	
	2002	00131
8. Does the applicant own all rights to the variety? Mark an "X" in the lf no, please explain.	he appropriate block.	
ir no, piease explain.		X YES NO
Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country	based company?	X YES NO
10. Is the applicant the original owner?	If no, please answer one of the fo	ollowing:
	40	
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Natio	onal(s)?
YES NO If no, give name of count	try	
b. If the original rights to variety were owned by a company(ies	s), is (are) the original owner(s) a U.S. b	pased company?
YES NO If no, give name of count		,
11. Additional explanation on ownership (If needed, use the reverse	for extra space):	
•		
Please Note:		
Plant variety protection can only be afforded to the owners (not licen	nsees) who meet the following criteria:	
 If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals of 	person must be a U.S. national, national of the U.S. for the same genus and spe	l of a UPOV member country, or cies.
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species.	oyed the original breeder(s), the compar country which affords similar protection	ny must be U.S. based, owned by a to nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must	meet one of the above criteria.
The original breeder/owner may be the individual or company who d Act for definitions.	irected the final breeding. See Section	41(a)(2) ot the Plant Variety Protection
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